

A. R. B. NOTICE

No. 12

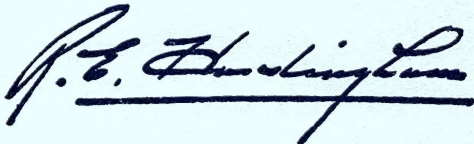
Issue 1.

1st June, 1964.

DESIGN ENGINEERING

- 1 Aircraft Constructors will be aware that certain undesirable design features have the habit of being repeated even though their undesirability is well known. The Board feels that the circumstances of such cases should be made known as widely as possible as part of the effort to reduce repetition. To this end this Notice will be used as a medium for sharing experience.
- 2 A recent incident involving a transport aircraft concerned the failure of the power control bracket fitting to the elevator. A subsequent investigation revealed that soft metal shims were embodied between the bracket and the elevator apparently for assembly alignment and adjustment. Small diameter special tapered bolts were embodied in shear and set bolts in tension, but the effect of these was quickly lost after initial tightening due to setting or extrusion of the soft metal shims.
- 3 In this type of assembly it is important that the initial torque loading at construction should be maintained throughout the life of the assembly. This object was defeated by the use of soft metal shims and thus a design feature which has been proved by experience to be undesirable was repeated and created a serious hazard. Chief Designers should issue appropriate instructions.

By Order of the Board,

A handwritten signature in dark ink, appearing to read 'R. E. H. Ling', is written over a horizontal line.

Secretary.

Air Registration Board,
Chancery House,
Chancery Lane,
London, W.C.2.

12 Nov 61

From: [illegible]
To: [illegible]

DISPATCH TO [illegible]

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